

SEQUENCE LISTING

<110> Shi, Hua
Lis, John T.

<120> EXHAUSTIVE SELECTION OF RNA APTAMERS AGAINST COMPLEX
TARGETS

<130> 19603/3921

<140>

<141>

<150> 60/391,255

<151> 2002-06-24

<160> 36

<170> PatentIn Ver. 2.1

<210> 1

<211> 39

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:
Nitrocellulose binding sequence

<400> 1

aacguagaac caauaagggg augggaaggg uaaaaggga

39

<210> 2

<211> 50

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:
Nitrocellulose binding sequence

<400> 2

cacaacgauc aaaagaaaag ggagggccgg ggaagggguug gacaaacagg

50

<210> 3

<211> 50

<212> RNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:
 Nitrocellulose binding sequence

 <400> 3
 gccacgacc aaaacaaagg gaaggaggga gggugcagac gaaagccagg 50

 <210> 4
 <211> 45
 <212> RNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:
 Nitrocellulose binding sequence

 <400> 4
 uacaacaucg uagcguggca acugauggcu uugccgaacu cugaa 45

 <210> 5
 <211> 8
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Probe

 <400> 5
 cccttccc 8

 <210> 6
 <211> 8
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Probe

 <400> 6
 ccctccct 8

<210> 7
<211> 8
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Probe

<400> 7
ccctcctt

8

<210> 8
<211> 8
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Probe

<400> 8
cccctcca

8

<210> 9
<211> 8
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Probe

<400> 9
cccacccg

8

<210> 10
<211> 12
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Probe

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<221> unsure

<222> (1)..(2)

<223> N at positions 1-2 can be A, T, G, or C

<220>
<221> unsure
<222> (11)..(12)
<223> N at positions 11-12 can be A, T, G, or C

<400> 10
nncccttccc nn

12

<210> 11
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
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<220>
<221> unsure
<222> (1)..(2)
<223> N at positions 1-2 can be A, T, G, or C

<220>
<221> unsure
<222> (11)..(12)
<223> N at positions 11-12 can be A, T, G, or C

<400> 11
nnccctccct nn

12

<210> 12
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Probe

<220>
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<222> (1)..(2)
<223> N at positions 1-2 can be A, T, G, or C

<220>
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<222> (11)..(12)

<223> N at positions 11-12 can be A, T, G, or C

<400> 12

nnccctcctt nn

12

<210> 13

<211> 12

<212> DNA

<213> Artificial Sequence

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<222> (1)..(2)

<223> N at positions 1-2 can be A, T, G, or C

<220>

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<222> (11)..(12)

<223> N at positions 11-12 can be A, T, G, or C

<400> 13

nncccctcca nn

12

<210> 14

<211> 12

<212> DNA

<213> Artificial Sequence

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<222> (1)..(2)

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<220>

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<222> (11)..(12)

<223> N at positions 11-12 can be A, T, G, or C

<400> 14

nncccacccg nn

12

<210> 15
<211> 13
<212> DNA
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<220>
<223> Description of Artificial Sequence: Probe

<220>
<221> unsure
<222> (1)..(2)
<223> N at positions 1-2 can be A, T, G, or C

<220>
<221> unsure
<222> (6)..(8)
<223> W at positions 6-8 can be A or T

<220>
<221> unsure
<222> (12)..(13)
<223> N at positions 12-13 can be A, T, G, or C

<400> 15
nncccwwcc cnn

13

<210> 16
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Probe

<400> 16
cggtcgctg gttgacc

17

<210> 17
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Probe

<400> 17
 ctgtcgccag gttgatc 17

<210> 18
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Probe

<400> 18
 gtaatacgac tcactatagg gagaattcaa ctgccatcta 40

<210> 19
 <211> 39
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 19
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<210> 20
 <211> 45
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 20
 ttcagagttc ggcaaagcca tcagttgcca cgctacgatg ttgta 45

<210> 21
 <211> 38
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 21
 gtaatacgac tcactatagg caacgtagaa ccaataag 38

<210> 22
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 22
 tcccttttac ccttcccata cccttattgg ttctacgttg 40

<210> 23
 <211> 37
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 23
 gtaatacgac tcactatagg cacaacgatc aaaagaa 37

<210> 24
 <211> 50
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 24
 cctgtttgtc caacccttcc ccggccctcc cttttctttt gatcgttg 50

<210> 25
 <211> 37
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 25
gtaatacgac tcactatagg gccacgacc aaaacaa 37

<210> 26
<211> 49
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 26
cctggctttc gtctgcaccc tccctccttc cctttgtttt ggtcgtggg 49

<210> 27
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 27
atcgcgatac aaaattaagt tgaacgagag ttctccatct 40

<210> 28
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: DNA encoding
randomized region of RNA aptamer 14-1

<400> 28
atcgcgatac aaaattaagt tgaacgagag ttctccatct 40

<210> 29
<211> 40
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DNA encoding
randomized region of RNA aptamer 14-2

<400> 29

aagtagctag gagtccttct cccctcaaaa cagaatggg

40

<210> 30

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DNA encoding
randomized region of RNA aptamer 9a-1

<400> 30

ggcaagctac gcgtcaaata gcaagcacac cgaagacaca

40

<210> 31

<211> 90

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DNA coding
for RAl-HSF (14-1) aptamer

<400> 31

gggagaattc aactgccatc taggcatcgc gatacaaat taagttgaac gcgagttctc 60
catctagtac tacaagcttc tggactcgat 90

<210> 32

<211> 90

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DNA coding
for 14-2 aptamer

<400> 32

gggagaattc aactgccatc taggcaagta gctaggagtc cttctcccct caaaacagaa 60
tggggagtac tacaagcttc tggactcgat 90

<210> 33
<211> 90
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DNA coding
for 9a-1 aptamer

<400> 33
gggagaattc aactgccatc taggcggcaa gctacgcgtc aaatagcaag cacaccgaag 60
acacaagtac tacaagcttc tggactcgat 90

<210> 34
<211> 90
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: RAl-HSF
(14-1) aptamer

<400> 34
gggagaauuc aacugccauc uaggcaucgc gauacaaaau uaaguugaac gcgaguucuc 60
caucuaguac uacaagcuuc uggacucgau 90

<210> 35
<211> 90
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: 14-2 aptamer

<400> 35
gggagaauuc aacugccauc uaggcaagua gcuaggaguc cuucucuccu caaaacagaa 60
uggggaguac uacaagcuuc uggacucgau 90

<210> 36
<211> 90
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: 9a-1 aptamer

<400> 36

gggagaauuc aacugccauc uaggcggcaa gcuacgcguc aaauagcaag cacaccgaag 60
acacaaguac uacaagcuuc uggacucgau 90